

Fire Station #39 UST Site Assessment Report

Seattle UST - North Group

Prepared for:

The City of Seattle - Executive Services Department

June 12, 1998



Prepared by

GARRY STRUTHERS ASSOCIATES, INC.

Construction Management ♦ Environmental Sciences ♦ Project Management ♦ Engineering

Executive Summary

On behalf of the City of Seattle (City), Garry Struthers Associates, Inc. provided site assessment guidance during the decommissioning of the former diesel underground storage tank (UST) at the City's Fire Station #39 site. This site is located at 12705 – 30th Avenue Northeast in Seattle, Washington. This site was registered with the Washington State Department of Ecology (Ecology) with a UST Site ID Number of 7893. The UST is registered with tank name F39-1.

A release has not occurred at this site as based upon the results of the site assessment performed at the time of the UST decommissioning. The UST was permanently closed and removed from the site.

Introduction

On behalf of the City of Seattle (City), Garry Struthers Associates, Inc. provided site assessment guidance during the decommissioning of the former diesel underground storage tank (UST) at the City's Fire Station #39 site. This site is located at 12705 - 30th Avenue East in Seattle, Washington. This site was registered with the Washington State Department of Ecology (Ecology) with a UST Site ID Number of 7893. The UST is registered with tank name F39-1.

Site Background

The site is within the city limits of Seattle, Washington and is located in the SE 1/4 of the SE 1/4 of Section 21 of Township 26 North Range 4 East. The site has been operated as a fire station since 1949. Surrounding properties are commercial (strip mall, bank, and auto shop). A site vicinity map is provided in Figure 1.

The UST at the site is reported to have been in use since 1962. This UST also reportedly was used for gasoline storage up to the early 1990's at which time it was converted to diesel fuel storage for fueling of the facility's fire trucks. Tax assessor records for this property are included as Appendix A of this report.

The diesel UST was located immediately north of the facility's front apparatus ramp. A 2-inch copper water line is immediately north of the location of the former UST. The area of this UST had been covered with landscaping blocks and vegetation. The associated fuel dispenser was located immediately above the western end of the former UST. This UST had a nominal capacity of approximately 550 gallons, was approximately 92-inches long (east-west direction) by 42 inches in diameter, and was being used up until the time of its decommissioning. A site map is provided in Figure 2.

The soils in the vicinity of the UST were native clay. Sand had been used as a backfill material around the UST.

Decommissioning and Site Assessment Activities

Decommissioning activities for this UST occurred on June 5, 1998. Mr. Michael McAloon of SAYBR Contractors, Inc. (SAYBR) conducted the decommissioning activities. The Ecology 'Closure and Site Assessment Notice' is included in Appendix B of this report. The top of the UST was located approximately three and a half feet below grade. Decommissioning was accomplished by removal of the UST from the site.

The surface area of the excavation created by the UST removal was approximately 3.5 feet by 8 feet.

Three soil samples were collected from the UST excavation with the aid of the backhoe. A sample collected from the bottom of the excavation was identified as sample number 39B. This sample was collected from approximately seven feet below grade. A composite sample from the southern and western sidewalls was identified as sample number 39AB. A composite sample from the northern and eastern sidewalls was identified as sample number 39WS. Each of the sidewall composite sample locations were at approximately six feet below grade.

Since the dispenser and all product piping were located on top of the UST, no additional samples were collected specifically from the piping.

Soil materials were visually screened for analytes of interest. Samples collected from in-situ soils provided no apparent field indications of a release from the UST system. Laboratory analytical results provided confirmation that contamination was not present in the in-situ soils.

Less than one and a half yards of overburden soil was associated with the UST removal. These materials were located on top of the UST. One soil sample (identification number 39OB) was collected from this overburden material. The screening of these soils provided no apparent field indications of fuel spillage related to the UST system. Due to the minimal amount of overburden soil and the lack of any indication of spillage additional sampling of this material was not conducted. Laboratory analytical results provided confirmation that contamination was not present in these soils.

Water was not encountered during the decommissioning and site assessment activities at this site.

The site assessment sampling locations are shown in Figure 3.

The Ecology 'Site Check/Site Assessment Checklist' is included in Appendix B of this report.

Analytical Results

All of the soil samples were submitted to OnSite Environmental, Inc. of Redmond, Washington for laboratory analysis. Each sample was analyzed by Method WTPH-HCID. Method WTPH-HCID provides qualitative results to confirm the presence or absence of hydrocarbons within specified ranges (i.e. gasoline, diesel, and oil ranges) within the specific sample.

The analytical results confirmed the field observations that a release did not occur from this UST system, as indicated by the non-detected levels of petroleum related hydrocarbons reported by the analytical laboratory. Although Method WTPH-HCID is a qualitative analytical method, quantitative analysis is not required due to the analyte levels being less than the laboratory detection limits.

TABLE 1 - Laboratory Analytical Results

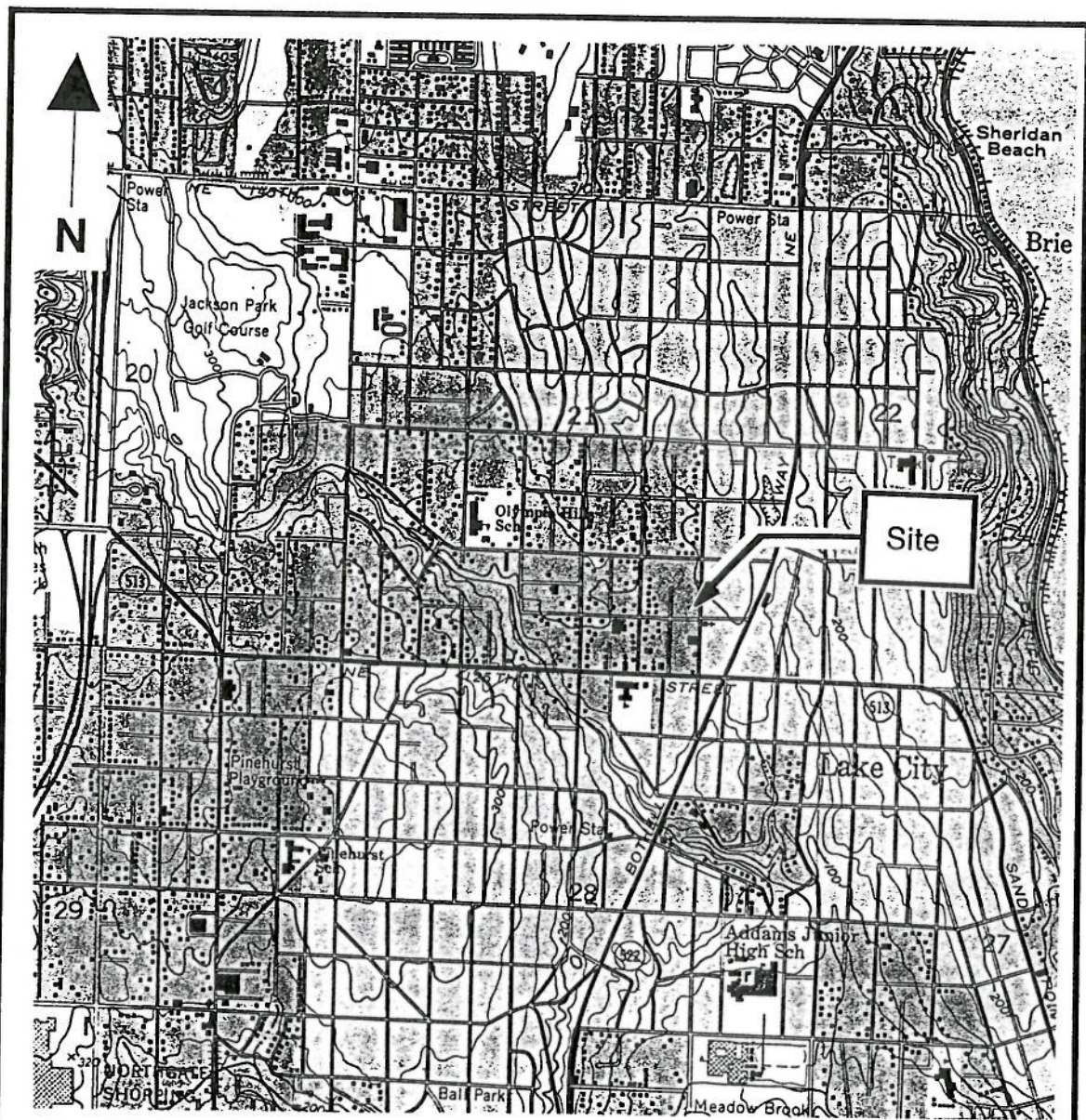
Sample Number	Sample Depth (feet below grade)	Method WTPH-HCID		
		Gasoline Concentration (mg/Kg)	Diesel Fuel Concentration (mg/Kg)	Oil Concentration (mg/Kg)
39B	7	<28	<57	<110
39AB	6	<27	<55	<110
39WS	6	<27	<55	<110
39OB	Not Applicable	<27	<55	<110
MTCA Cleanup Level		100	200	200

Laboratory analytical data is included as Appendix C of this report.

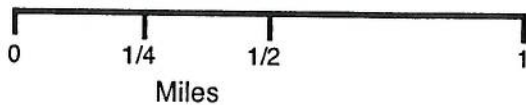
Summary

Based upon site assessment observations and associated analytical results, there is no indication of leakage from the former UST facility at this site. The former UST has been decommissioned with permanent removal.

No warranty is expressly stated or implied in this report with regard to the condition of the substrate and groundwater below the surface of this property with the exception of the sampling and analysis of substrate assessed by GSA. This report is not intended to, nor does it purport to encompass every record, report or document available on the site and the surrounding properties. This report reflects our observations of the condition of the property during the time of field activities, and does not cover any other conditions found on the property that were not visible during these field activities.



Scale 1" = 2000'



Reproduced from:
USGS Seattle North
Quadrangle - 1968
Date: June 10, 1998

Vicinity Map of
Seattle Fire Station #39
12705 - 30th Avenue Northeast,
Seattle, Washington

Figure

1



PLAN

[illegible]

CITY OF SEATTLE EXECUTIVE SERVICES DEPARTMENT UNDERGROUND TANK REMOVAL, REPLACEMENT, AND UPGRADE NORTH GROUP	REMOVAL UNDERGROUND FIRE
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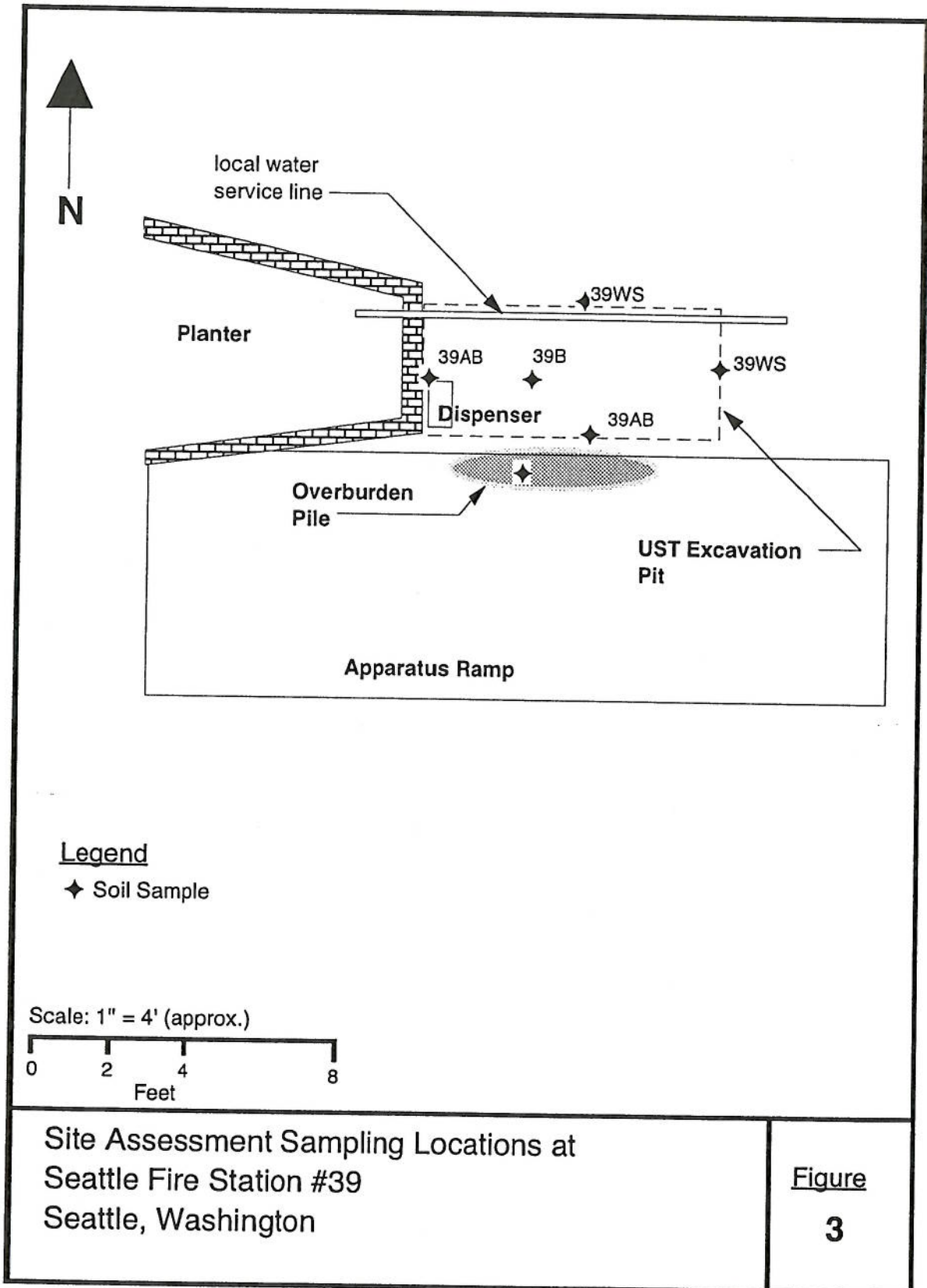
ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

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DATE	APRD	CHKD	DRWN	DSGN
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Other Buildings	Construction	Floor	Roof	Stories	Dimensions	S.F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage								\$		\$	\$
								\$		\$	\$
								\$		\$	\$
								\$		\$	\$



APPENDIX A

Archived Tax Assessor Records

FOLIO

6442

PERMIT NO.

92818

DATE

ADDITION Kenwood #2

Section 24 Twp. 26 Range 4 Ewm Block 1 Tract or Lot 11

92818

1972-11-17

9.10.11+12

38345

0065

383450-0065 X 9730

17800-0065

0065

UNIMPROVED

IMPROVED

TIMBER

FERRY

TOTAL ACRES

FIRE

WATER

SCHOOL

ROAD

SEATTLE-1

SEWER

HSPIL

AIRPT

LC

BY

TOTAL

BUDGS

LAND

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DATE 5-12-49

Fee Owner 30 H.E. at 127

Condition of Exterior 9

Interior 9

Foundation 9

Address of Property 12705-30 N.E.

Floor Plan: G

USE Full Station

No. Stories 1

No. Stores 1

No. Rooms 1

Basement 1

No. Offices 1

No. Apartments 1

1 rm. 2 rm. 3 rm.

4 rm. 5 rm. 6 rm.

TYPE OF CONSTRUCTION

Frame Single Double

Ordinary Masonry

Mill Construction

Class A Rein. Con.

Stru. Steel and Con.

Tile Brick

Con. Rein. Con.

Good Med. Cheap

FOUNDATION

Mud Sills

Post and Pier

Brick

Concrete

Pile

BASEMENT

Full Sub-Basement

17421000

30 H.E. at 127

12705-30 N.E.

Interior 9

Foundation 9

Address of Property 12705-30 N.E.

Floor Plan: G

USE Full Station

No. Stories 1

No. Stores 1

No. Rooms 1

Basement 1

No. Offices 1

No. Apartments 1

1 rm. 2 rm. 3 rm.

4 rm. 5 rm. 6 rm.

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No. Apartments 1

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FOUNDATION

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Brick

Concrete

Pile

BASEMENT

Full Sub-Basement

LAND CLASSIFICATION AND SEGREGATION
THIS SQUARE INDICATES 2 1/2 ACRES / " = 50'.
INDICATE BY AREAS, USE OF LAND BY MARKS AND TYPE BY LETTERS

SECTION SE 21
TWP 26 N
RANGE 4 E

TAX LOT NO. _____

PARCEL NO. _____

28 AVE NE

E 124 . ST

IF USED AS $\frac{1}{4}$ SECT. SCALE ONE INCH 400 FEET OR 160 ACRES OR 2640 FEET
IF USED AS $\frac{1}{8}$ OF $\frac{1}{4}$ " SCALE ONE INCH 200 FEET OR 40 ACRES OR 1320 FEET
IF USED AS $\frac{1}{16}$ - $\frac{1}{4}$ - $\frac{1}{8}$ " SCALE ONE INCH 100 FEET OR 10 ACRES OR 660 FEET

AERIAL PHOTO.
QUARTER MAP
PLAT MAP

Folio #6942 C0

LAND USE	ACRES
111 CULTIVATED	_____
# PASTURE	_____
00 TIMBER	_____
XX STUMP	_____
... GRAVEL OR	_____
USELESS	_____
V SWAMP	_____

LAND TYPE	ACRES
A SHOT CLAY	_____
B BOG	_____
C PEAT	_____
D SILT	_____
E _____ LOAM	_____
F GRAVEL	_____
G BOTTOM	_____
H UPLANDS	_____
K HILLY	_____

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APPENDIX B

Closure and Site Assessment Notice

and

Site Check/Site Assessment Checklist



UNDERGROUND STORAGE TANK 30 DAY NOTICE

See back of form for instructions

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Both

NW FOR OFFICE USE ONLY
Site ID #: 7893
Owner ID #: U8348
Once validated by Ecology, this form serves as your temporary permit for the tanks listed below.

Site Information

Site ID Number 7839
(Available from Ecology if the tanks are registered)
Site/Business Name Fire Station No. 39
Site Address 12705 30th Avenue NE
City/State Seattle, WA
Zip Code 98125 Telephone (206) 386-1439

Owner Information

(This form will be returned to this address)

UST Owner/Operator City of Seattle
Mailing Address 618 Second Avenue, 14th Floor
City/State Seattle, WA
Zip Code 98104 Telephone (206) 684-0422

Tank Installation Company (if known). Fill out this section ONLY if tanks are being installed.

Service Company _____ Contact Name _____
Address _____
City _____ State _____ Zip Code _____

Tank Permanent Closure Company (if known). Fill out this section ONLY if tanks are being closed.

Service Company Saybr Construction Contact Name Mickey McAloon
Address 17803 61st Avenue
City Seattle State WA Zip Code 98118 Telephone (206) 439-2144

Tank Closure Information

Fill out this section ONLY if tanks are being closed.

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date Tank Last Used	Is There Product In the Tank (Yes/No)	If No, Date Tank Was Pumped
F39-1	5-27-98	500	diesel	5-26-98	yes	

Tank Installation Information

Fill out this section ONLY if tanks are being installed.

Tank ID	Approx. Install Date



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

See back of form for instructions

FOR OFFICE USE ONLY	
Site ID #:	
Owner ID #:	

Please ☒ the appropriate box(es)

☐ Temporary Tank Closure ☐ Change-In-Service ☒ Permanent Tank Closure ☐ Site Check/Site Assessment

Site Information

Owner Information

(This form will be returned to this address)

Site ID Number 7893
(Available from Ecology if the tanks are registered)
Site/Business Name SEATTLE FIRE STATION #39 Mailing Address 618 SECOND AVENUE
Site Address 12705 30th AVENUE EAST ALASKA BUILDING, 14th FLOOR
City/State SEATTLE WA City/State SEATTLE WA
Zip Code 98125 Telephone (206) 386-1439 Zip Code 98104 Telephone (206) 684-0422
Owner's Signature [Signature]

Tank Closure/Change-In-Service Company

Service Company SAYBR CONTRACTORS
Certified Supervisor MICHAEL M. ALON Decommissioning Certification No. 1042854-26
Supervisor's Signature [Signature]
Address 17803 51st AVE S
City SEATTLE State WA Zip Code 98188 Telephone (206) 439 2144

Site Check/Site Assessor

Certified Site Assessor FREDERICK N. LUCK
Address 3150 RICHARDS ROAD Suite 100
City BELLEVUE State WA Zip Code 98005 Telephone (425) 519-0300

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
<u>F39-1</u>	<u>05 JUN 98</u>	<u>REMOVAL</u>	<u>550</u>	<u>DIESEL</u>

Contamination Present at the Time of Closure

☐ Yes ☒ No ☐ Unknown

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

☐ Yes ☐ No

If contamination is present, has the release been reported to the appropriate regional office?

Instructions

Please Read Carefully

AFTER COMPLETING THIS FORM, RETURN TO:

TOXICS CLEANUP PROGRAM
DEPARTMENT OF ECOLOGY
P.O. BOX 47855
OLYMPIA, WA 98504-7855

This form is to be completed by the tank owner and submitted to Ecology within 30 days of tank closure. Mark the appropriate box(es) for temporary tank closure, permanent tank closure, change-in-service, or site assessment.

Permanent Closure and Change-In-Service require a site assessment be performed.

Site and Owner Information

Fill in the site and owner information. Include the Ecology site number, if known; also, be sure to provide telephone numbers so that any problems can be resolved quickly. The tank owner **MUST** sign this form.

Tank Closure/Change-In-Service Company and Site Check/Site Assessor

List the closure company and fill in the site assessor information for permanent closure or change-in-service. Ask to see the closure company supervisor's IFCI Certification and make sure that the certified supervisor signs this form.

Please note: Individuals performing services **MUST** be certified by the International Fire Code Institute (IFCI), or other nationally recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Tank Information and Contamination Present at Time of Closure

Please fill in the tank information requested using tank ID numbers previously reported to Ecology. In the column entitled "Closure Method," indicate what manner of closure was used, such as closure in place or removal. Check the appropriate box(es) indicating if contamination is present and has been reported. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours [see below for telephone numbers]. If contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, then this form, a site assessment checklist, and a site assessment report must be submitted to the above address within 30 days.

Central	Eastern	Southwest	Northwest
(509) 574-2490 (voice)	(509) 456-2926 (voice)	(360) 407-6300 (voice)	(206) 649-7000 (voice)
(509) 454-7673 (TDD)	(509) 458-2055 (TDD)	(360) 407-6306 (TDD)	(206) 649-4259 (TDD)

The following tanks are exempt from notification requirements:

- ❖ Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.
- ❖ Tanks used for storing heating oil that is used on the premises where the tank is located.
- ❖ Tanks with a capacity of 110 gallons or less.
- ❖ Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- ❖ Emergency overflow tanks, catch basins, or sumps.

For more information, call toll free in the state of Washington 1-800-826-7716 (Message).



UNDERGROUND STORAGE TANK Site Check / Site Assessment Checklist

FOR OFFICE USE ONLY

Site #:

Owner #:

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by IFCI or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSEMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
PO Box 47655
Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 7893

Site/Business Name: SEATTLE FIRE STATION #39

Site Address: 12705- 30th AVENUE EAST

Telephone: (206) 386-1439

SEATTLE
City

Street

WA
State

98125
Zip Code

TANK INFORMATION

Tank ID No.

F39-1

Tank Capacity

550 gal.

Substance Stored

DIESEL FUEL

REASON FOR CONDUCTING SITE CHECK / SITE ASSESSEMENT

Check one:

- ☐ Investigate suspected release due to on-site environmental contamination.
- ☐ Investigate suspected release due to off-site environmental contamination.
- ☐ Extend temporary closure of UST system for more than 12 months.
- ☐ UST system undergoing change-in-service.
- ☐ UST system permanently closed-in service.
- ☒ UST system permanently closed with tank removed.
- ☐ Abandoned tank containing product.
- ☐ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ☐ Other (describe):

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	YES	NO
1. The location of the UST site is shown on a vicinity map.	<i>JE</i>	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	<i>JE</i>	
3. A summary of UST system data is provided. (see Section 3.1.)	<i>JE</i>	
4. The soils characteristics at the UST site are described. (see Section 5.2)	<i>JE</i>	
5. Is there any apparent groundwater in the tank excavation?	<i>JE</i>	
6. A brief description of the surrounding land use is provided. (see Section 3.1)	<i>JE</i>	<i>JE</i>
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	<i>JE</i>	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	<i>JE</i>	
- groundwater samples distinguished from soil samples (if applicable)	<i>NA</i>	
- samples collected from stockpiled excavated soil	<i>JE</i>	
- tank and piping locations and limits of excavation pit	<i>JE</i>	
- adjacent structures and streets	<i>JE</i>	
- approximate locations of any on-site and nearby utilities	<i>JE</i>	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	<i>JE</i>	
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	<i>JE</i>	
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<i>JE</i>	
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.		<i>JE</i>

SITE ASSESSOR INFORMATION

FREDERICK N. LUK
Person registered with Ecology

GARY SCOTT ASSOCIATES INC.
Firm Affiliated with

Business Address: 3150 RICHARDS ROAD SUITE 100 Telephone: (425) 519-0300
BELLEVUE Street WA City 98005 State Zip Code

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

6/9/98
Date

[Signature]
Signature of Person Registered with Ecology

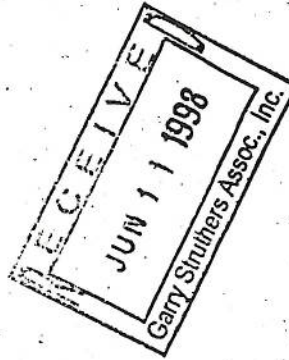
APPENDIX C

Laboratory Analytical Data



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services



June 10, 1998

Kevin Dour
Garry Struthers Associates, Inc.
3150 Richards Road, Suite 100
Bellevue, WA 98005-4446

Re: Analytical Data for Project 95-044 Phase 5
Laboratory Reference No. 9806-051

Dear Kevin:

Enclosed are the analytical results and associated quality control data for samples submitted on June 5, 1998.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Chemist

Enclosures

Date of Report: June 10, 1998
Samples Submitted: June 5, 1998
Lab Traveler: 06-051
Project: 95-044 Phase 5

NWTPH-HCID

Date Extracted: 6-5-98
Date Analyzed: 6-8-98

Matrix: Soil
Units: mg/Kg (ppm)

Client ID:	39B	39AB	39WS
Lab ID:	06-051-01	06-051-02	06-051-03

Gas C7-C12:	ND	ND	ND
PQL:	28	27	27

Diesel Fuel C12-C24:	ND	ND	ND
PQL:	57	55	55

Heavy Oil C24-C34:	ND	ND	ND
PQL:	110	110	110

Surrogate Recovery:			
o-Terphenyl	95%	101%	101%

Flags:

Date of Report: June 10, 1998
Samples Submitted: June 5, 1998
Lab Traveler: 06-051
Project: 95-044 Phase 5

NWTPH-HCID

Date Extracted: 6-5-98
Date Analyzed: 6-8-98

Matrix: Soil
Units: mg/Kg (ppm)

Client ID: 390B
Lab ID: 06-051-04

Gas C7-C12: ND
PQL: 27

Diesel Fuel C12-C24: ND
PQL: 55

Heavy Oil C24-C34: ND
PQL: 110

Surrogate Recovery:
o-Terphenyl 99%

Flags:

Date of Report: June 10, 1998
Samples Submitted: June 5, 1998
Lab Traveler: 06-051
Project: 95-044 Phase 5

NWTPH-HCID
METHOD BLANK QUALITY CONTROL

Date Extracted: 6-5-98
Date Analyzed: 6-8-98

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0605S1

Gas C7-C12: ND
PQL: 23

Diesel Fuel C12-C24: ND
PQL: 50

Heavy Oil C24-C34: ND
PQL: 100

Surrogate Recovery:
o-Terphenyl 100%

Flags

Date of Report: June 10, 1998
Samples Submitted: June 5, 1998
Lab Traveler: 06-051
Project: 95-044 Phase 5

Date Analyzed: 6-5-98

% MOISTURE

Client ID	Lab ID	% Moisture
39B	06-051-01	12
39AB	06-051-02	9.0
39WS	06-051-03	9.0
39OB	06-051-04	9.0



**OnSite
Environmental Inc.**

DATA QUALIFIERS AND ABBREVIATIONS

- A - Due to high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - D - Data from 1:____ dilution.
 - E - The value reported exceeds the quantitation range, and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - G - Insufficient sample quantity for duplicate analysis.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - Quantitated from C7-C34 as diesel fuel #2.
 - M - Predominantly _____ range hydrocarbons present in the sample.
 - N - Hydrocarbons in the gasoline range (C7-toluene) are present in the sample which are elevating the diesel result.
 - O - Hydrocarbons in the heavy oil range (>C24) are present in the sample which are elevating the diesel result.
 - P - Hydrocarbons in the diesel range (C12-C24) are present in the sample which are elevating the oil result.
 - Q - The RPD of the results between the two columns is greater than 25.
 - R - Hydrocarbons outside the defined gasoline range are present in the sample and are elevating the gasoline result.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - Y - Acid Cleaned.
 - Z - Interferences were present which prevented the quantitation of the analyte below the detection limit reported.
- ND - Not Detected
MRL - Method Reporting Limit
PQL - Practical Quantitation



Chain of Custody

OnSite Environmental Inc.

14924 NE 31st Circle • Redmond, WA 98052
Fax: (425) 885-4603 • Phone: (425) 883-3881

Company: GSA inc
Project No.: 95-044 PHASE 5
Project Name: SEATTLE DSES - NORTH
Project Manager: Karin Dore

Turn Around Requested		Project Chemist: <u>KPH</u>		Laboratory No.														
(Check One)		Requested Analysis																
<input type="checkbox"/> Same Day																		
<input checked="" type="checkbox"/> 24 Hours																		
<input type="checkbox"/> 48 Hours																		
<input type="checkbox"/> Standard																		
<input type="checkbox"/> (other)																		
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8240/624/8260	Halogenated Volatiles by 8260	Semivolatiles by 8270/625	PAHs by 8270/625	PCBs by 8081/608	Total PCRA Metals (8)	TCLP Metals	VPH	EPH	% Moisture
1	39AB	6/5/98	1015	S	2	X												X
2	39AB	6/5/98	1026	S	2	X												X
3	39WS	6/5/98	1033	S	2	X												X
4	39OB	6/5/98	1039	S	2	X												X
RECEIVED BY: <u>Kyotenkyon</u> DATE: <u>6/5/98</u>																		
FIRM: <u>GSA inc.</u> TIME: <u>1350</u>																		
RECEIVED BY: <u>OSR</u> DATE: <u>1:50</u>																		
FIRM: DATE: TIME:																		
REVIEWED BY: DATE REVIEWED:																		

